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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/561,963	03/27/2007	Yoshiyuki Futagami	050841	3196	
23850 7590 02/20/2009 KRATZ, QUINTOS & HANSON, LLP 1420 K Street, N.W. Suite 400 WASHINGTON, DC 20005			EXAMINER		
			TRIEU, THERESA		
			ART UNIT	PAPER NUMBER	
			3748		
			MAIL DATE	DELIVERY MODE	
			02/20/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	10/561,963	FUTAGAMI ET AL.					
Office Action Summary	Examiner	Art Unit					
	Theresa Trieu	3748					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim 11 apply and will expire SIX (6) MONTHS from 12 cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 12 No.	ovember 2008.						
/ <u> </u>							
·=	, 						
closed in accordance with the practice under E	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) <u>1,2 and 9-12</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1,2 and 9-12</u> is/are rejected.	<u></u>						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	·.						
· · · · ·	10)⊠ The drawing(s) filed on <u>Nov. 12, 2008</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:	priesis, amaier de C.C .C. 3 110(a)	(5) 5. (.).					
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application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) DNotice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	nte					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P 6) Other:	atent Application					
Paper No(s)/Mail Date	o) 🔲 Oulet						

DETAILED ACTION

This Office Action is responsive to the applicants' amendment filed on Nov. 12, 2008.

Claim 1 has been amended. Claims 3-8 have been canceled. Claims 9-12 have been added. Accordingly, claims 1, 2 and 9-12 are pending in this application.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

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1. Claims 1, 2, 9, 10, 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Admitted Prior Art (APA) in view of Kitano et al. (Kitano) (Patent Number 6,116,876) and further in view of Yamada et al. (Yamada) (Patent Number 5,468,130).

Regarding claims 1, 9 and 11, APA discloses a scroll compressor in which a scroll fixed lap 2a rising from a fixed plate 2b of a fixed scroll 2 and a scroll orbiting lap 4a rising from an orbiting plate 4b of an orbiting scroll are combined with each other to form compression chambers therebetween, a plate back surface of the orbiting scroll is provided with a back pressure space 8a, the back pressure space is divided into an inner region and an outer region by a seal ring 14, high pressure is applied to the inner region of the seal ring, pressure which is lower than that applied to the inner region is applied to the outer region, thereby bringing the orbiting scroll into contact with the fixed scroll, a rotation-resistant part 22 restrains the orbiting scroll from rotating, the orbiting scroll is allowed to orbit, thereby moving the compression chamber toward a center of scroll while reducing volume of the compression chamber, refrigerant gas is sucked into the compression chamber and compressed, wherein the fixed scroll is made of iron-based material, the orbiting scroll is made of aluminum-based material. However, APA fails to disclose only the plate back surface of the orbiting scroll being subjected to surface processing.

Regarding claims 1, 9 and 11, Kitano teaches that it is conventional in the art to utilize only the plate back surface of the orbiting scroll 18 is subjected to surface processing. It would have been obvious to one having ordinary skill in the art at the time the invention was made, to have utilized only the plate surface of the orbiting being subjected to surface processing, as

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taught by Kitano in the APA apparatus, since the use thereof would have reduced the wear amount, improved the performance and the efficiency of the scroll compressor device.

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Regarding claims 1, 9 and 11, the modified APA discloses the invention as recited above; however, the modified APA fails to disclose a sliding portion between the plate back surface and the seal ring being subjected to lapping processing, buff processing or barrel polishing processing after the surface processing; a sliding portion between the plate back surface and the seal ring being masked and subjected to the surface processing; a sliding portion between the plate back surface and the seal ring being removed by working. A product-by-process limitation and the determination of patentability in a product-by-process claim are based on the product itself, even though the claim may be limited and defined by the process. That is, the product in such a claim is unpatentable if it is the same as or obvious from the product of the prior art, even if the prior product was made by a different process. *In re Thorpe*, 777 F.2d 695,697,227 USPQ 964,966 (Fed. Cir. 1985). A product-by-process limitation adds no patentable distinction to the claim, and is unpatentable if the claimed product is the same as a product of the prior art.

Regarding claims 2, 10 and 12, Yamada further disclose nickel phosphorus plating processing being carried out as the surface processing (col.4, lines 24-37 – col. 5, lines 2-14).

Response to Arguments

2. Applicant's arguments with respect to claims 1, 2 and 9-12 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

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3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

4. Applicant is duly reminded that a complete response must satisfy the requirements of 37 C.F.R. 1.111, including: "The reply must present arguments pointing out the specific distinctions believed to render the claims, including any newly presented claims, patentable over any applied references. A general allegation that the claims "define a patentable invention" without specifically pointing out how the language of the claims patentably distinguishes them from the references does not comply with the requirements of this section. Moreover, "The prompt development of a clear Issue requires that the replies of the applicant meet the objections to and rejections of the claims." Applicant should also specifically point out the support for any amendments made to the disclosure. See MPEP §2163.06 II(A), MPEP §2163.06 and MPEP §714.02. The "disclosure" includes the claims, the specification and the drawings.

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Communication

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Theresa Trieu whose telephone number is 571-272-4868. The

examiner can normally be reached on Monday-Friday 8:30am- 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thomas E. Denion can be reached on 571-272-4859. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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like assistance from a USPTO Customer Service Representative or access to the automated

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TT

/Theresa Trieu/ Primary Examiner, Art Unit 3748